

Serial No. 10/635,627  
Page 2 of 10

### IN THE CLAIMS

1. **(currently amended)** Outdoor radio equipment, comprising:
  - a radio transmitting and receiving part for performing a modulation and demodulation process; and
  - a common part for controlling an action of the radio transmitting and receiving part, wherein
  - the radio transmitting and receiving part is provided at the common part so as to be exposed to open air, and
  - at least a part of an external side surface of the radio transmitting and receiving part is exposed to open air.
2. **(original)** The outdoor radio equipment as claimed in claim 1,
  - wherein a plurality of the radio transmitting and receiving part is provided at the common part.
3. **(original)** The outdoor radio equipment as claimed in claim 1,
  - wherein the common part includes a first interface part for the transmitting and receiving part including a first connector,
  - the radio transmitting and receiving part includes a second interface part for the common part including a second connector,
  - the second interface part is provided at a side, where the common part is provided, of the radio transmitting and receiving part, and

84122405\_1

Serial No. 10/635,627

Page 3 of 10

the radio transmitting and receiving part is electrically connected to the common part by engaging the second connector of the second interface part with the first connector of the first interface part.

4. (original) The outdoor radio equipment as claimed in claim 3, wherein at least one of the second connector of the second interface part and the first connector of the first interface part is floatably supported in an installation surface.

5. (original) The outdoor radio equipment as claimed in claim 3, wherein a waterproof member is provided at a surface where the second interface part of the radio transmitting and receiving part comes in contact with the first interface part of the common part.

6. (original) The outdoor radio equipment as claimed in claim 1, wherein the radio transmitting and receiving part includes a housing, electrical equipment is provided inside of the housing of the radio transmitting and receiving part,

a radiation heat member is provided at a side to be installed to the common part, of the housing of the radio transmitting and receiving part,

the electrical equipment comes in contact with the housing or the radiation heat member directly or indirectly, and

the heat from the electrical equipment is transferred to open air via the housing or the radiation heat member.

84122405\_1

Serial No. 10/635,627

Page 4 of 10

7. **(original)** The outdoor radio equipment as claimed in claim 6,  
wherein a gap is formed between the radiation heat member provided at the housing part  
and the common part when the radio transmitting and receiving part is installed to the common  
part.

8. **(original)** The outdoor radio equipment as claimed in claim 3,  
wherein the radio transmitting and receiving part includes a shaft member,  
the shaft member is provided at an upper part of the side where the radio transmitting and  
receiving part is installed to the common part,  
the common part includes a bearing part,  
the bearing part is provided at an upper part of the side where the common part is  
installed to the radio transmitting and receiving part, and  
the shaft member is hung in the bearing part and rotated, so that the radio transmitting  
and receiving part is connected to the common part.

9. **(original)** The outdoor radio equipment as claimed in claim 1,  
wherein the common part includes:  
an electric power source part for converting a first electric power source to a second  
electric power source and supplying electric power to electronic components provided at the  
common part,

84122405\_1

Serial No. 10/635,627

Page 5 of 10

a control part for monitoring the radio transmitting and receiving part installed to the common part, and controlling a branching part for selecting a signal and distributing the signal to the radio transmitting and receiving part, and

a switching part for switching one of a plurality of the radio transmitting and receiving parts installed to the common part.

**10. (original)** The outdoor radio equipment as claimed in claim 6,

wherein the electronic equipment provided at the housing of the radio transmitting and receiving part includes:

an electric power source part for supplying an electric power to electronic components provided at the radio transmitting and receiving part,

a microwave transmitting part for converting information to a signal to be transmitted, a microwave receiving part for converting a received signal to information; and

a modulation and demodulation part for modulating and demodulating a signal wave.

**11. (original)** A radio unit, the radio unit being installed to a common part which has a function of transmitting and receiving a radio signal via an antenna and a substantially box-type configuration,

the radio unit having a modulation and demodulation part for performing a demodulation process of an input radio signal of the common part, outputting the demodulated signal to the common part, performing a modulation process by using another radio signal input from the common part, and outputting a modulated wave to the common part,

the radio unit, comprising:

84122405\_1

Serial No. 10/635,627

Page 6 of 10

a second connector part which is engaged with a first connector part of a side surface of the common part when the modulation and demodulation part is installed to the common part and which transmits and receives a signal including the radio signal,

an installation part for installing the modulation and demodulation part to the side surface of the common part, and

a radiation heat structure for preventing an temperature from increasing in the modulation and demodulation part.

84122405\_1